



U.S. Department
of Transportation

Research and
Special Programs
Administration

400 Seventh Street, S.W.
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0112/S, REVISION 5

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - Schlumberger Model NSR-GB.
2. Source Description - This neutron source authorized by this certificate is an inert gas welded, double encapsulation constructed of Type 302 or 304 stainless steel. The dimensions of the outer capsule are 33.2 mm (1.31") in diameter and 35.05 mm (1.38") in length. Sources authorized by this certificate shall be manufactured in accordance with Schlumberger Well Surveying Corp. drawing no. H-222649 (attached).
3. Radioactive Contents - This source consists of not more than 0.022 TBq (0.6 Ci) of Am-241 in the form of an oxide mixed with Beryllium powder.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 209 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires June 10, 2003.

This certificate is issued in accordance with paragraph 703 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated December 15, 1997 submitted by Schlumberger Technology Corporation, Sugar Land, TX, and in consideration of other information on file in this Office.

Certified by:


Alan I. Roberts

Associate Administrator for Hazardous Materials Safety

JUL - 7 1998

(DATE)

Revision 5 - to update to 1985 edition of the IAEA transport regulations and to extend the expiration date.

1 "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1985 Edition, as amended 1990", published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

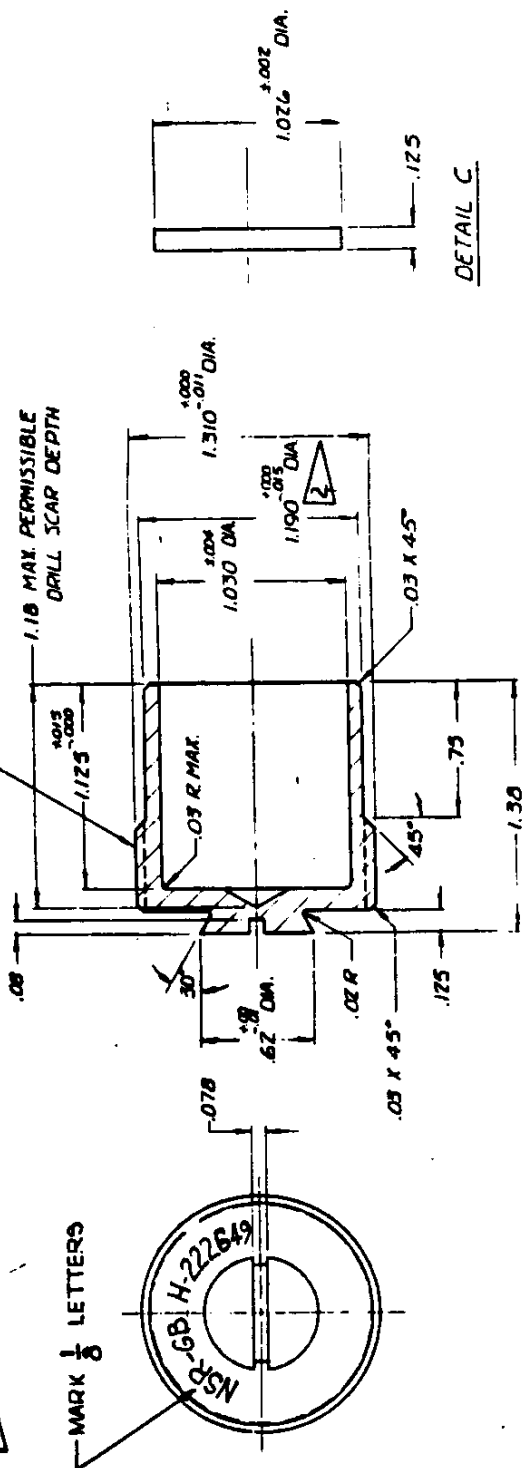
2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

NOTE: 1 FOR SHIPMENT OR TRANSPORTING
USE CARRYING CASE H-245440

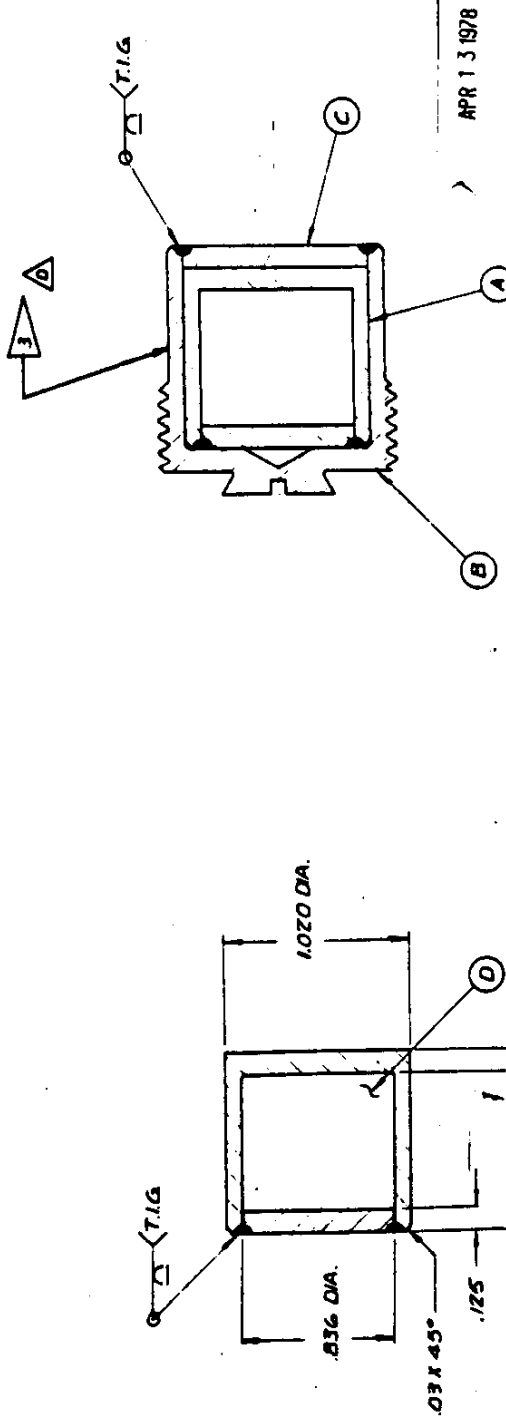
2 ▷ CONC WITHIN .004 TIR @ MMC

3 ▷ SEE ENS H-251923.

✓ MARK 1 LETTERS



DETAIL B



DETAIL A

CONSTRUCTION, TESTING, & ACCEPTANCE
PER ENS H-126981.

APR 13 1978

TEST	MATERIAL	TEST METHOD	RMS
A	316	316	316
B	316	316	316
C	316	316	316
D	316	316	316

ENGINEERING APPROVED SUPPLIER
MONTANTO RESEARCH CO.
DAYTON, OHIO
NUCLEAR SOURCES &
SERVICES INC.
PO. BOX 14023
HOUSTON, TX. 77021

0	4974	ECN 49830
C	4974	ECN 48905
B	2774	ECN 45033
A	4524	ECN 45489
No	9418	USCIBITION
B1		
REVISONS		
PROJECTS NSA-GB CNB-A		
TOLBRANCER UNLESS OTHERWISE SPECIFIED		
1.0	0.00	CONCENTRICITY 0.007 T.M.
1.04	0.010	12 V
1.08	0.008	ON ALL MACHINED SURFACES
1.09	0.005	2000 PSI
1.10	0.005	DO NOT COPY OR REPRODUCE WITHOUT AUTHORIZATION - DO NOT DISCLOSE DRAWING
DATA 1/10/11		
C80	003	1000 1000
1/11/11	1/11/11	1/11/11
0001/11/11	0001/11/11	0001/11/11
SCHLUMBERGER WELL SURVEYING COMP.		
HOUSTON, TEXAS		
NSA-GB NEUTRON SOURCE		
Am-Be		
ASSEMBLY 00001 N-277669		

USED ON 11-14-3139 ASSEMBLY OVER